

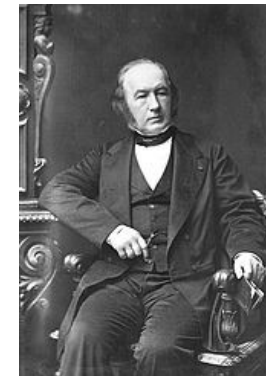


„VICTOR BABES“ UNIVERSITY
OF MEDICINE AND PHARMACY
FROM TIMISOARA



THE ROLE OF RESEARCH COOPERATION IN INTERNATIONALISATION OF “*VICTOR BABEȘ*” UNIVERSITY OF MEDICINE AND PHARMACY FROM TIMIȘOARA

Motto: “*Art Is I, Science Research Is We*”
(Claude Bernard)



Adrian Sturza, Danina Muntean

**Department of Pathophysiology – Functional Sciences
Center for Translational Research & Systems Medicine,
Faculty of Medicine**


Research Strategy





Fund Raising...



Nr.	Project Title	Code	Period	Budget (E)
1	National University Research Council (NURC) Project, category A <i>"Integrative Role of Mitochondria in Cardioprotection Against Myocardial Ischemia-Reperfusion Injury"</i>	CNCSIS-A 752 - FIRST NATIONAL GRANT	2006-2008	30, 934
2	Romanian Academy Grant <i>"In vitro Studies Concerning the Respiratory Function of Mitochondria Subpopulations Isolated from the Mammalian Myocardium"</i>	GAR nr. 26	2007-2008	1,778
3	National Association for Scientific Research (NASR) Project, Complex Partnerships II <i>"Cardioprotective Strategies at Reperfusion: Mitochondria as Multiple Therapeutic Target - CARDIO-MITO-PROT"</i> 	PN II 2560	2008-2011	185,390
4	National Association for Scientific Research (NASR), Exploratory Research Projects - IDEAS <i>"Assessment of Cardioprotective Effects of ATP-Dependent Potassium Channels Modulators"</i>	PCE-4-0512	2013-2016	310,980

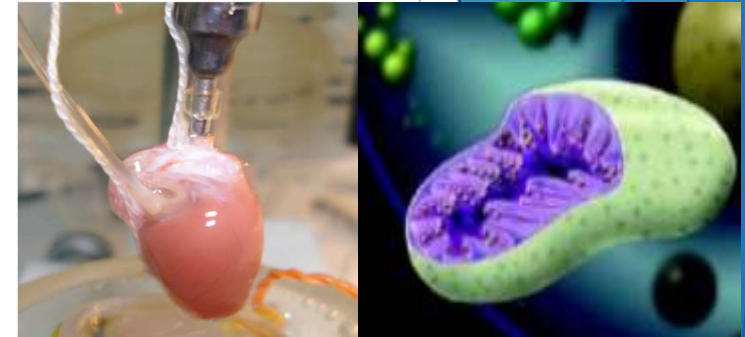
Team Building...



Cardioprotection Against I/R Injury *The Central Role of Mitochondria*

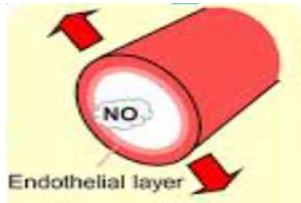


Nicoleta Mirica, MD, PhD

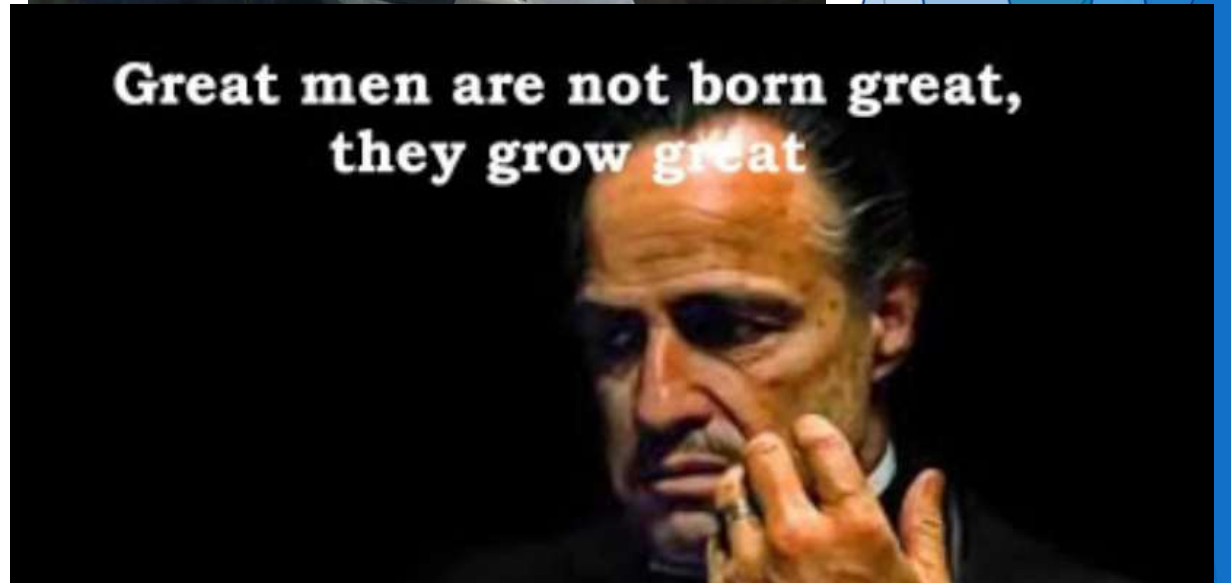


Oana Duicu, MD, PhD

Team Building...




**Great men are not born great,
they grow great**



Adrian Sturza, MD, PhD

Fund Raising (cont.)...



Nr.	Project Title	Code	Period	Budget (E)
1	National University Research Council (NURC) Project, category A <i>"Integrative Role of Mitochondria in Cardioprotection Against Myocardial Ischemia-Reperfusion Injury"</i>	CNCSIS-A 752 - FIRST NATIONAL GRANT	2006-2008	30, 934
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Laboratory for Mitochondria Studies





(Parralel) Team Building at the Faculty of Pharmacy...

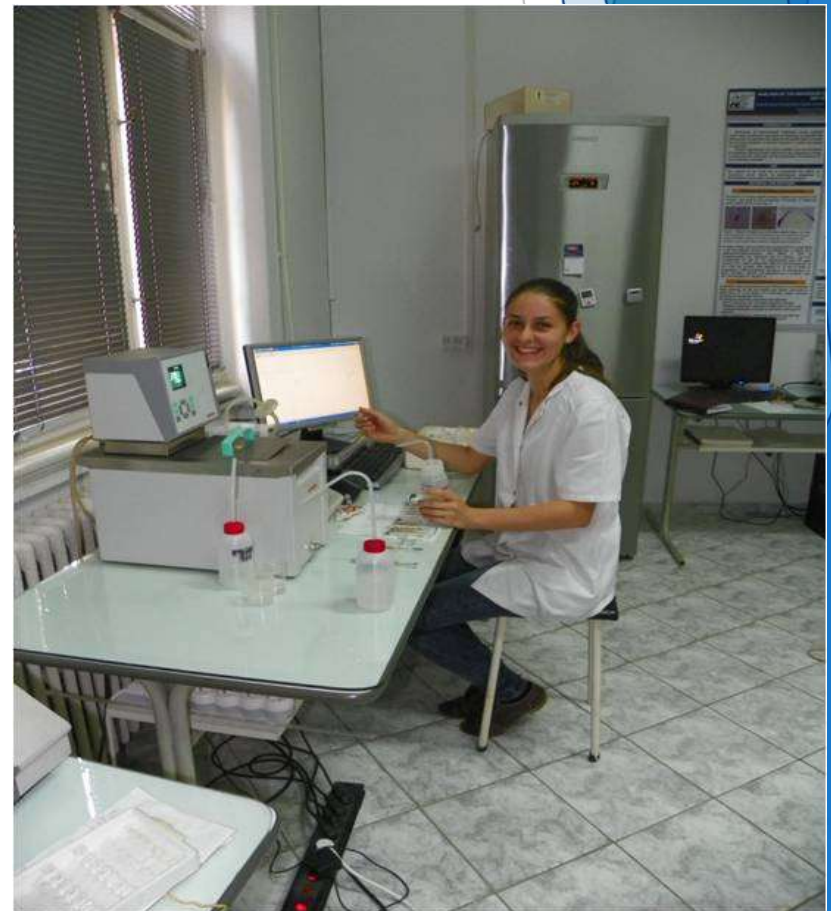
Thank you, Cristina!

Lect. Ioana Pavel,
PharmD

Assoc. Prof. Dorina Coricovac, PharmD



Assoc. Prof.
Alexandra
Mioc, PharmD





Fund Raising & Cooperation



Nr.	Project Title	Code	Period	Budget (E)
1	Romanian-Hungarian Bilateral Cooperation project „Implementation of a Regional Training Network in Experimental Cardiology” – CARDIO-REG	RO 24 ID 17 - FIRST INTERNATIONAL COOPERATION	2008-2009	47,500
2	Hungary-Romania Cross-Border Cooperation Programme “Development of the infrastructure for a pole of excellence in cardiovascular research” – HURO-CARDIO-POL	HURO/0802/011	2009-2011	441,400
3	Hungary-Romania Cross-Border Cooperation Programme, “Implementation of a regional project for translational medical research concerning diseases with high impact in population” – HU-RO TRANSMED	HURO/0901/137 /2.2.2	2010-2011	157,384
4	Hungary-Romania Cross-Border Cooperation Programme, “Twinning project for the joint development of the research infrastructure” – HU-RO TWIN	HU-RO 1101/082/2.2.1	2013-2014 + 2015	268,100 + 50,000



Danina Muntean

Norbert Jost

András Tóth

László Virág



András Varró

Ovidiu Firă-Mladinescu

Ioana Mozoș

TRANSLATIONAL RESEARCH IN CARDIOVASCULAR DISEASE

A Cross-Border Approach

Department of Pathophysiology
University of Medicine and Pharmacy Timișoara, Romania

Department of Pharmacology and Pharmacotherapy
Faculty of Medicine, University of Szeged, Hungary



Date of receipt: 27.11.2009	Relation: Hungarian-Romanian Joint Project in S&T 2008-2009	ID number: RO - 24/2007 RO ID 17
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Project Title	IMPLEMENTATION OF A REGIONAL TRAINING NETWORK IN <u>CARDIOLOGY - CARDIOREG</u>
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Contract Nr.: 55/2008	Project Start & End Dates: July, 1st, 2008 30, November, 2009	Project Duration: 1 year 5 months
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	HUNGARIAN PRINCIPAL INVESTIGATOR	ROMANIAN PRINCIPAL INVESTIGATOR
Last name	VARRO	MUNTEAN
First name	András	Mirela Danina
Scientific Degree	MD, PhD, DSc	MD, PhD, PharmD



ANCS
Autoritatea Națională pentru Cercetare Științifică



Organize Within the Framework of the
Bilateral Cooperation Romanian – Hungarian Project
IMPLEMENTATION of a REGIONAL TRAINING NETWORK in EXPERIMENTAL
CARDIOLOGY



BASIC RESEARCH TECHNIQUES IN CARDIOLOGY & HOW TO DO SESSIONS



Team Building...



Lect. Maria Danila, MD, PhD





Lab. Andreea Anechitei, Chem Eng, PhD



Fund Raising & Cooperation



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4	Hungary-Romania Cross-Border Cooperation Programme, “ <i>Twinning project for the joint development of the research infrastructure – HU-RO TWIN</i> ”	HU-RO 1101/082/2.2.1 	2013-2014 + 2015	268,100 50,000



Fund Raising & Cooperation



- ▶ **Project Title: Development of the Infrastructure for a Pole of Excellence in Cardiovascular Research**
- ▶ **Acronym: HURO-CARDIO-POL**
- ▶ **Identification number: HURO/0802/011_AF**
- ▶ **Lead Partner: University of Szeged**
- ▶ **Project Partner: „Victor Babeş” University of Medicine and Pharmacy Timișoara**
- ▶ **Priority Axis 2 Strengthen social and economic cohesion of the border area**
- ▶ **Key Area of Intervention 2.1 Promotion of co-operation in the field of R&D and innovation**
- ▶ **Action 2.2.1. Joint development of research infrastructure**
- ▶ **Project budget: 956,955 Euro**



Laboratory for Confocal Microscopy





Fund Raising & Cooperation



- ▶ **Project Title:** **Twinning Project for the Joint Development of the Research Infrastructure**
- ▶ **Acronym:** **HURO-TWIN**
- ▶ **Identification number:** **HURO/1101/086**
- ▶ **Lead Partner:** **University of Szeged**
- ▶ **Project Partner:** **„Victor Babeş” University of Medicine and Pharmacy Timișoara**
- ▶ **Priority Axis 2 Strengthen social and economic cohesion of the border area**
- ▶ **Key Area of Intervention 2.1 Promotion of co-operation in the field of R&D and innovation**
- ▶ **Action 2.2.1. Joint development of research infrastructure**
- ▶ **Project budget:** **552,698 Euro**



Laboratory of Molecular Biology



The ADVANCED RESEARCH CENTRE

- ✓ Laboratory for Mitochondria Studies (2008)
- ✓ Laboratory for *In Vitro* & *In Vivo* Experimental Studies (2010) - upgrade
- ✓ Laboratory for Confocal Microscopy (2012)
- ✓ Laboratory for Molecular Biology (2013)
- ➡ Foundation of the Centre for Translational Research & Systems Medicine (CerT-MedS) (2014) ranked as Advanced Research Centre of the university since 2020

Research domains included in the University Research Strategy:

- ✓ Strategies of cardiovascular, metabolic and renal protection on animal models and in humans: translational studies tackling the central role of mitochondria
- ✓ Mitochondria dysfunction in cardiometabolic disease, ageing and cancer: from mechanisms to novel therapeutic targets
- ✓ Endothelial dysfunction: etiopathogenesis and novel therapeutic approaches
- ✓ Assessment and combating oxidative stress in pathology: focus on monoamine oxidase (MAO)
- ✓ Evaluation of the effects of phytochemical compounds on mitochondria function

INTERNATIONAL NETWORKING - COST PROJECTS

1. COST (COoperation in the field of Scientific and Technical Research) Action - *"Realising the therapeutic potential of novel cardioprotective therapies" - EU-CARDIOPROTECTION* , code CA16225, 2017-2022
2. COST Action *"Mitochondrial Fitness Mapping - MITOEAGLE"*, code CA15203, 2016-2020
3. COST Action *"The Network for the Biology of Zinc"*, code TD1304, 2013-2017
4. COST Action *"European Network on Gasotransmitters"*, code BM1005, 2011-2015
5. COST Action *„Hypoxia Sensing, Signaling and Adaptation"*, code BMBS TD0901, 2010-2013
6. COST Action *"Bioactive Food Components, Mitochondria Function and Health" – MITOFOOD*", code FA0602, 2007-2011

Research Expertise - international mobilities

- 12 STSMs (Short Term Scientific Missions) - COST Projects
- + 15 research mobilities supported by HU-RO & POSDRU Projects

INTERNATIONAL PhD CO-TUTORSHIPS

1. Prof. Ralf P. Brandes – PhD student Adrian Sturza (2013)

Institute for Cardiovascular Physiology, Goethe University, Frankfurt am Main, Germany

2. Prof. Peter Ferdinandy – PhD student Oana Duicu (2013)

Department of Biochemistry, Faculty of Medicine, University of Szeged, Hungary

3. Prof. Dr. Denis Angoulvant – PhD student Maria Dănilă (2017)

Department of Cardiology, University of Tours, France

4. Prof. Bernhard Bruene – PhD student Dorina Coricovac (2013)

Department of Biochemistry I, Goethe University Frankfurt am Main, Germany

5. Prof. Istvan Baczko – PhD student Alexandra Petruș (2016)

Department of Pharmacology and Pharmacotherapy, University of Szeged, Hungary

6. Prof. Dr. René Csuk – PhD student Ioana Pavel (2017)

Department of Organic Chemistry, University of Halle, Germany

Generation Next...



Adrian Sturza, MD, PhD,
Associate Professor



Oana Duicu (Aburel), MD, PhD,
Associate Professor

Fund Raising...



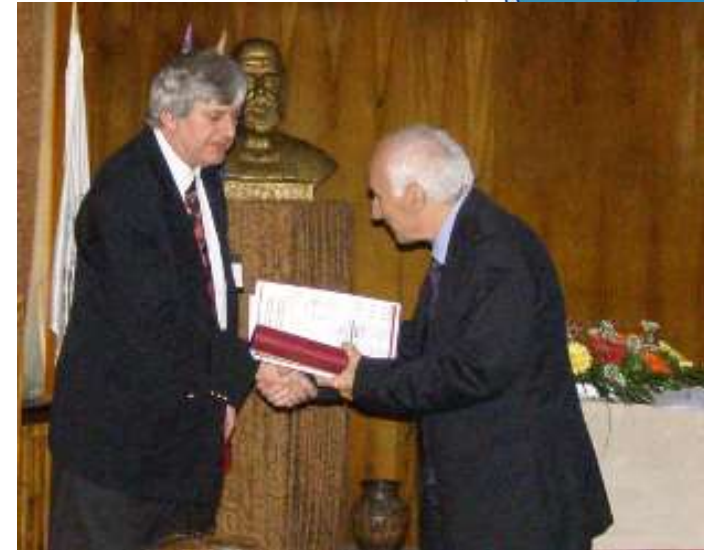
Nr.	Project Title	Code	Period	Budget (E)
1	University Internal Grant within the Program Partnerships in Innovative Basic Research <i>"Contribution of Monoamine Oxidases- Related Oxidative Stress To the Cardiovascular Dysfunction and Prognostic of Coronary Patients With and Without Diabetes Mellitus – MAO-CARDIO-SOX"</i>	III-C1-PCFI-2014/2015 Duicu Oana	2014-2015	19,110
2	University Internal Grant within the Program Partnerships in Innovative Basic Research <i>"Role of Vitamin D in Modulating The Vascular and Mitochondrial Function in Animal and Human Adipose Tissue – VASC-ADIPO-MIT"</i>	PIII-C5-PCFI-2017/2018 Sturza Adrian	2017-2018	30,000
3	Grant postdoc UMFVBT - <i>„Modularea functiei mitocondriale de catre albastrul de metilen in tesutul cardiovascular adipos”</i> – MITO-MB-CURAT	3POSTDOC/2020 Aburel Oana	2020-2022	50,000
4	Grant postdoc UMFVBT - <i>„MAO si memoria metabolica – repozitionarea inhibitorilor MAO ca si agenti protectori vasculari in diabet”</i> – MAO-DIAB	6POSTDOC/2020 Sturza Adrian	2020-2022	50,000



International Workshop

“Cardioprotection In Ischemia/Reperfusion Injury: *Where Do We Stand in 2007?*”

- Prof. Fabio Di Lisa (*Padova, Italy*)
- Prof. Alain Grynberg (*Paris, France*)
- Prof. František Kolár (*Praga, Czech Rep.*)
- Prof. Antigone Lazou (*Salonic, Greece*)
- Prof. Michel Ovize (*Lyon, France*)
- Prof. Tanya Ravingerová (*Bratislava, Slovakia*)
- Prof. László Rosivall (*Budapesta, Hungary*)
- **Prof. András Varró** (*Szeged, Hungary*)





International Conference



Meeting venue:
"Victor Babeș" University of Medicine and Pharmacy
from Timișoara, Romania

Registration and more information:
<http://www.iacs.sav.sk/meetings.html>

Contact persons:
daninamuntean@umft.ro
sturza.adrian@umft.ro

Organized by International Academy of
Cardiovascular Sciences – European Section (IACS-ES)
and "Victor Babeș" University of Medicine
and Pharmacy of Timișoara, Romania, as local host.



„VICTOR BABEȘ” UNIVERSITY
OF MEDICINE AND PHARMACY
FROM TIMISOARA



„If we let our own light shine, we unconsciously give other people permission to do the same.” (Nelson Mandela)

Confirmed Speakers

Denis Angoulvant (Tours, France)
Devendra Agrawal (Omaha, USA)
István Baczkó (Szeged, Hungary)
Monika Bartekova (Bratislava, Slovakia)
Theodora Bejan-Angoulvant (Tours, France)
Jerzy Beltowski (Lublin, Poland)
Roberto Bolli (Louisville, USA)
Stefan Choplicki (Krakow, Poland)
Torsten Christ (Hamburg, Germany)
Michael Czubryt (Winnipeg, Canada)
Naranjan Dhalla (Winnipeg, Canada)
Katharine Dibb (Manchester, UK)
Dragan Djuric (Belgrade, Serbia)
Alicia D'Souza (Oxford, UK)
David Eisner (Manchester, UK)
Peter Ferdinandy (Budapest, Hungary)
Rodolphe Fischmeister (Paris, France)
Ferenc Gallyas (Pécs, Hungary)
Ricardo Gelpi (Buenos Aires, Argentina)
Gerd Heusch (Essen, Germany)
Melanie Hezzel (Bristol, UK)
Vladimir Jakovljevic (Kragujevac, Serbia)
José Jalife (Madrid, Spain)
Thomas Jespersen (Copenhagen, Denmark)
Norbert Jost (Szeged, Hungary)

Patrycja Kaczara (Krakow, Poland)
Lorrie Kirshenbaum (Winnipeg, Canada)
Gary Lopaschuk (Edmonton, Canada)
Isidora Milosavljevic (Kragujevac, Serbia)
Martin Morad (Charleston, USA)
Norbert Nagy (Szeged, Hungary)
Petr Ostadal (Prague, Czech Republic)
Zoltán Papp (Debrecen, Hungary)
Grant Pierce (Winnipeg, Canada)
Inna Rabinovich-Nikitin (Winnipeg, Canada)
Blanca Rodriguez (Oxford, UK)
Suleiman Saadeh (Bristol, UK)
Ranko Škrbić (Banja Luka, Republic of Srpska B&H)
Dinender Singla (Orlando, USA)
Miloš Stojiljković (Banja Luka, Republik of Srpska B&H)
Ivan Srejovic (Kragujevac, Serbia)
Paramjit Tappia (Winnipeg, Canada)
Rhian Touyz (Montreal, Canada)
Belma Turan (Ankara, Turkey)
Suresh Tyagi (Louisville, USA)
András Varró (Szeged, Hungary)
Antonio Zaza (Milano, Italy)
Vladimir Zivkovic (Kragujevac, Serbia)
Coert Zuurbier (Amsterdam, The Netherlands)



International Conference

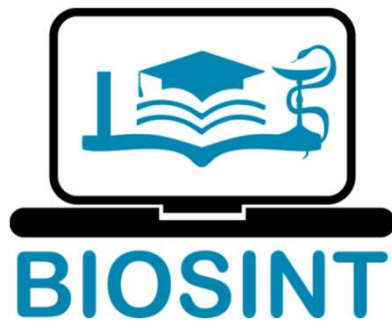


Research is WE...

Pathophysiology Fab Team

Prof. Claudia Borza, MD, PhD, Dr. Hab
Prof. Ioana Mozoș, MD, PhD, Dr. Hab
Assoc. Prof. Adrian Sturza, MD, PhD
Assoc. Prof. Oana Aburel, MD, PhD
Assoc. Prof. Lavinia Noveanu, MD, PhD
Lect. Maria Dănilă, MD, PhD
Lect. Corina Șerban, MD, PhD
Lect. Ana Lascu, MD, PhD
Assist. Prof. Mihaela Mariș, MD, PhD
Assist. Prof. Theia Lelcu, MD
Assist. Prof. Laura Ghenciu, MD
Assist. Prof. Iasmina Hâncu, MD
Assist. Prof. Adina Lința, MD
Assist. Prof. Silvia Giuchici, MD
Assist. Prof. Darius Buriman, MD
Lab. Chem. Eng. Andreea Anechitei, PhD





....and YOU Together



...This is the very best time to be a scientist. So was last century. And so will be the next. For there are no small problems in science, only phenomena so incompletely understood... Ultimately science only progresses in collaboration and in science... "the infinite is always before us."

Ramón y Cajal, "Advice for a Young Investigator"



Advice for Young Investigators

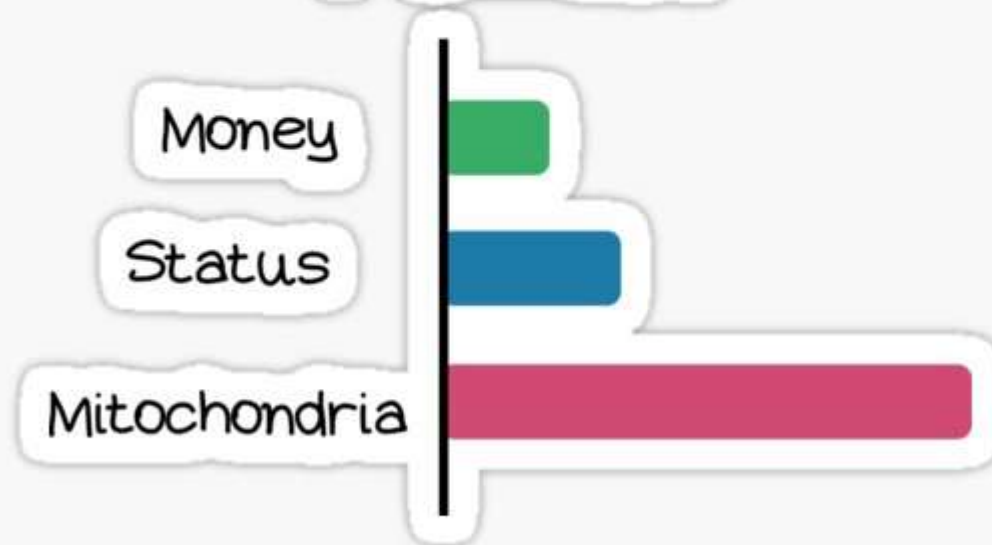
Great men are at times geniuses, occasionally children, always incomplete.

Even when a work of a genius is subjected to critical analysis and no errors are found, it is important to realize that everything he has discovered in a particular field is almost nothing in comparison with what remains to be discovered.

Nature offers inexhaustible wealth to all. There is certainly no reason to envy our predecessors, or to exclaim with Alexandre following the victories of Phillip, "My father is going to leave me nothing to conquer".

Ramón y Cajal, "Advice for a Young Investigator"

What gives people POWER



CellPress

Breathe: Your Mitochondria Will Do the Rest...

Carlo Viscomi¹ and Massimo Zeviani^{1,2,*}

¹MRC-Mitochondrial Biology Unit, Cambridge CB2 0XY, UK

²Department of Neurosciences, University of Padova, Padova, Italy